



# MATERIAL SAFETY DATA SHEET

## ILLUMINATE™

LAST REVISION DATE: 3/4/93

MANUFACTURER:  
Pioneer/Eclipse Corp.  
Sparta, NC 28675  
919-372-8080

FOR CHEMICAL EMERGENCY: Spill, Leak, Fire, Exposure, or Accident  
CALL CHEMTREC - Day or Night \*800-424-9300 Toll Free in the Continental U.S.  
\*Add long-distance access number if required. 483-7616 in DISTRICT OF COLUMBIA  
For calls originating outside the U.S.: 202-483-7616 Washington, DC Collect

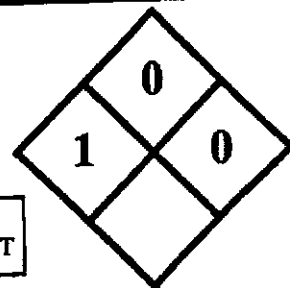
### SECTION I: GENERAL INFORMATION

PRODUCT NAME: Illuminate™  
PRODUCT CLASS: Aqueous based polish/cleaner  
U.S. D.O.T. HAZARD CLASS: Non-regulated  
PRECAUTIONS: Possible skin and eye irritant. Keep container sealed when not in use.  
Keep out of reach of children.  
FLAMMABILITY: 0  
REACTIVITY: 0  
HEALTH: 1

PRODUCT #: 206

CAS#: NE

NFPA HAZARD RATINGS  
4-EXTREME 3-HIGH 2-MODERATE 1-SLIGHT 0-INSIGNIFICANT



### SECTION II: HAZARDOUS INGREDIENTS

| INGREDIENT                    | CAS#     | %   | OSHA PEL | ACGIH TLV | LD 50 SPECIES & ROUTE   |
|-------------------------------|----------|-----|----------|-----------|-------------------------|
| *Ethanol, 2-(2-Methoxyethoxy) | 111-77-3 | 1-5 | NE       | NE        | 9.2 g/kg male rat, oral |

\*This chemical is subject to the reporting requirements of Section 313 of SARA Title III.  
NE = Not Established NL = Not Listed NA = Not Applicable (C) = Identified as a Carcinogen by OSHA, IARC, or NTP.

### SECTION III: PHYSICAL/CHEMICAL DATA

PHYSICAL STATE: Liquid  
BOILING POINT: 100°C/212°F  
FREEZING POINT: 0°C/32°F  
% VOLATILE BY WEIGHT: 94.0 ± 0.5%  
APPEARANCE: Translucent light blue liquid  
SOLUBILITY IN WATER: Miscible

pH: 9.50 ± 0.25  
EVAPORATION RATE: Less than 1 (Water = 1)  
VAPOR DENSITY: Less than 1 (Air = 1)  
VAPOR PRESSURE (mm Hg): NE  
WEIGHT PER GALLON: 8.40 lbs.

### SECTION IV: FIRE AND EXPLOSION DATA

FLASH POINT: Non-Combustible  
EXPLOSIVE LIMITS:  
LOWER: NA UPPER: NA  
EXTINGUISHING MEDIA: NA  
SPECIAL FIRE FIGHTING PROCEDURES: None  
HAZARDOUS COMBUSTIBLE PRODUCTS: None  
UNUSUAL FIRE AND EXPLOSION HAZARDS: Materials can splatter above 100°C/212°F. Polymer film can burn.

### SECTION V: REACTIVITY DATA

STABILITY: Stable  
HAZARDOUS POLYMERIZATION: Will not occur.  
INCOMPATIBILITY (MATERIALS TO AVOID): Strong acids and bases.  
HAZARDOUS DECOMPOSITION PRODUCTS: NA  
REACTIVITY CONDITIONS: None

continued...

## SECTION VI: HEALTH HAZARD DATA

### EFFECTS OF OVEREXPOSURE/EMERGENCY AND FIRST AID PROCEDURES

**EYES:** Slightly irritating to eyes. For eye contact, flush with a large amount of water for at least 15 minutes. See a physician if irritation persists.

**SKIN:** Irritating to skin upon repeated or prolonged contact. For skin contact, wash affected areas with soap and water.

**INHALATION:** Vapor or mist can cause headache, nausea, and irritation of the eyes, nose, throat, and lungs. For overexposure, move subject to fresh air.

**INGESTION:** Irritation to mouth, esophagus, and stomach. If ingested, drink several glasses of water and induce vomiting. Seek medical attention.

**CHRONIC EFFECTS AND MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:** Prolonged or repeated contact can cause drying, defatting and dermatitis to skin.

**CARCINOGEN:** Non-Carcinogenic

**REPRODUCTIVE EFFECTS:** NE

**TERATOGENICITY:** NE

**MUTAGENICITY:** NE

**THRESHOLD LIMIT VALUE:** See Section II.

## SECTION VII: SPILL, LEAK, AND DISPOSAL PROCEDURES

**SMALL SPILLS:** Absorb spill on inert material (E.G. sand, earth) and dispose of as waste material in accordance with local, state, and federal law.

**LARGE SPILLS:** Keep spectators away. Floors may be slippery; use care to avoid falling. Dike and contain spill with inert material (E.G. sand, earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for disposal. Keep spills and cleaning runoff out of sewers and open bodies of water.

**WASTE DISPOSAL:** Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant liquid and flush to a chemical sewer or drum liquid waste and turn it over to a licensed hazardous waste disposal facility for disposal, landfill, or incinerate the solids and the contaminated diking material according to local, state, and federal regulations.

## SECTION VIII: SPECIAL PROTECTION

**EYE PROTECTION:** Chemical splash goggles (ANSI Z87.1 or approved equivalent).

**RESPIRATORY PROTECTION:** None required when permissible airborne concentrations are not exceeded. In emergency, use approved positive pressure self-contained breathing device.

**VENTILATION:** Mechanical local exhaust ventilation at point of contamination release.

**OTHER PROTECTIVE EQUIPMENT:** As required by employer code.

## SECTION IX: SPECIAL PRECAUTIONS

**HANDLING AND STORAGE:** Storage temperature (MAX. 60°C/140°F) (MIN. 1°C/34°F).

**OTHER PRECAUTIONS:** Keep from freezing, product may coagulate.

## SECTION X: ADDITIONAL INFORMATION

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PREPARED BY: WARREN W. WEAVER  
TITLE: DIRECTOR, CHEMICAL DIVISION  
DATE: 3/3/93

This MSDS has been provided you in accordance with the OSHA HAZARD COMMUNICATION STANDARD (29CFR 1910.1200)

\*\*\*IMPORTANT SAFETY INFORMATION - DO NOT DISCARD\*\*\*  
\*\*PLEASE ROUTE TO COMPANY SAFETY OFFICER\*\*